SPT 5x20

Miniature Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, UL: 115 V - 300 VDC



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T

See below:
Approvals and Compliances

Description

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

Applications

- Primary Protection in Equipment
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

References

Pigtail Type SPT 5x20 Pigtail
Assembled Fuseholder OGN-SMD
Fuse Kit Fuse Kit SP 5x20 / SPT 5x20

Weblinks

pdf data sheet, html datasheet, General Product Information, Packaging details, Distributor-Stock-Check, Detailed request for product

Technical Data

Rated Voltage	250 VAC, 300 VDC
Rated current	0.5 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Ceramics
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.16 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Rated current, Rated Voltage, Characteristic, Breaking Capacity, Certification marks

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: SPT 5x20

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40035651
	VDE Approvals	VDE	VDE Certificate Number: 40014395
	UL Approvals	UL	UL File Number: E41599
	CCC Approvals	CCC	CCC Certificate Number: 2020970207000118 & more
	KTL Approvals	KTL	Korea Testing Laboratory
	METI Approvals	METI	Japan Electrical Safety and Environment technology Laboratories

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses
	Designed according to	CSA22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

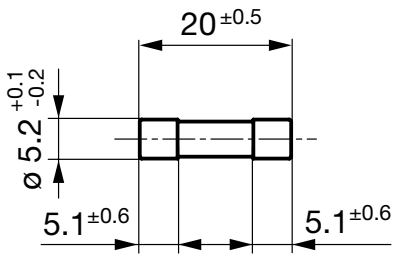
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

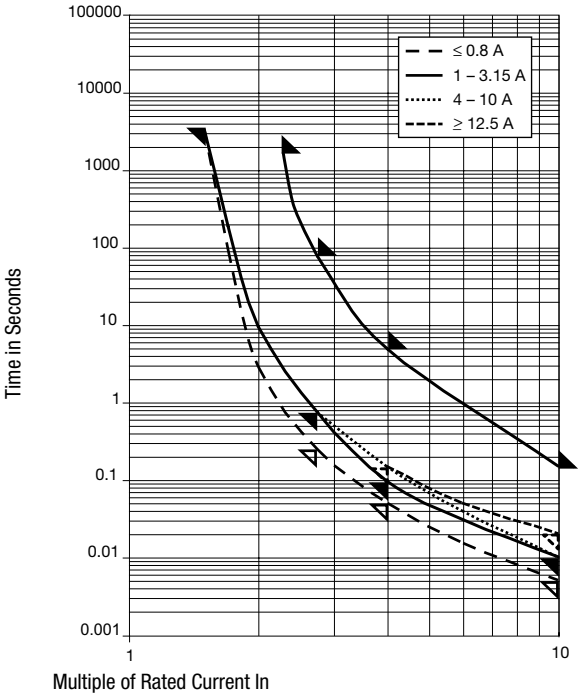
20 mm



Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.5 A - 0.8 A	60 min	30 min	250 ms	80 s	50 ms	5 s	5 ms	150 ms
1 A - 3.15 A	60 min	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
4 A - 6.3 A	60 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
8 A - 10 A	30 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
12.5 A - 16 A	30 min	30 min	750 ms	80 s	150 ms	5 s	20 ms	150 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n max. [mV]	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.5 I_n max.	Power Dissipation 1.5 I_n typ. [mW]	Melting I^2t 10.0 I_n typ. [A^2s]								Order Number
0.5	250	300	1)	850	360	1600	500	0.5	●		●					0001.2501
0.63	250	300	1)	650	330	1600	500	1.55	●		●					0001.2502
0.8	250	300	1)	500	260	1600	500	2.3	●		●					0001.2503
1	250	300	1)	350	180	2500	500	1.1	●		●	●	●	●		0001.2504
1.25	250	300	1)	300	150	2500	500	1.86	●		●	●	●	●		0001.2505
1.6	250	300	1)	200	130	2500	500	4.35	●		●	●	●	●		0001.2506
2	250	300	1)	190	120	2500	600	9.2	●		●	●	●	●		0001.2507
2.5	250	300	1)	180	100	2500	600	11.7	●		●	●	●	●		0001.2508
3.15	250	300	1)	140	100	4000	800	22	●		●	●	●	●		0001.2509
4	250	150	2)	100	90	4000	900	62.4	●		●	●	●	●		0001.2510
5	250	150	2)	100	90	4000	1200	97.5	●		●	●	●	●		0001.2511
6.3	250	150	2)	100	70	4000	1200	171	●		●	●	●	●		0001.2512
8	250	150	3)	100	70	4000	1300	268		●	●	●	●	●		0001.2513
10	250	150	3)	100	70	4000	2100	400		●	●	●	●			0001.2514
12.5	250	125	4)	100	70	4000	2500	563		●	●	●				0001.2515
16	250	125	4)	100	70	4000	3000	1500		●	●					0001.2516

Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n max. [mV]	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.5 I_n max.	Power Dissipation 1.5 I_n typ. [mW]	Melting I^2t 10.0 I_n typ. [A^2s]	Order Number

1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC

2) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC

3) IEC: 1000 A @ 250 VAC

3) UL: 1000 A @ 250 VAC, 1500 A @ 150 VDC

4) IEC: 500 A @ 250 VAC

4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VDC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit	xxxx.xxxx	Small Box Pack (10 pcs.)
	xxxx.xxxx.G	Bulk 128 x 91 x 60 mm (1000 pcs.)

19.10.2020

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.